TOSHIBA

OWNER'S MANUAL

Color Television

FST PURE®

COLORSTREAM®

Important Safeguards

Welcome to Toshiba

Connecting your TV

Using the Remote Control

Setting up your TV

Using the TV's Features

Appendix

Owner's Record

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number:

Serial number:

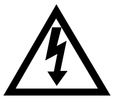
14AF42

© 2002 TOSHIBA CORPORATION
All Rights Reserved

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFEGUARDS

1. **READ INSTRUCTIONS**
All the safety and operating instructions should be read before the unit is operated.
2. **RETAIN INSTRUCTIONS**
The safety and operating instructions should be retained for future reference.
3. **HEED WARNINGS**
All warnings on the unit and in the operating instructions should be adhered to.
4. **FOLLOW INSTRUCTIONS**
All operating and use instructions should be followed.
5. **CLEANING**
Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. **ATTACHMENTS**
The manufacturer of this unit does not make any recommendations for attachments, as they may cause hazards.
7. **WATER AND MOISTURE**
Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
8. **ACCESSORIES**
Do not place this unit on an unstable cart, stand, tripod, bracket, or table.
The unit may fall, causing serious injury, and serious damage to the unit.

8A. An appliance and cart combination should be moved with care.
Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



9. **VENTILATION**
Slots and openings in the cabinet back or bottom are provided for ventilation, to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat source. This unit should not be placed in a built-in installation, such as a bookcase, or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. **POWER SOURCE**
This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.
11. **GROUNDING OR POLARIZATION**
This unit is equipped with a polarized alternating current line plug (a plug having one blade wider than the other).
This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet.
Do not defeat the safety purpose of the polarized plug. If your unit is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin, this plug will only fit into a grounding-type power outlet. This too, is a safety feature. If you are unable to insert the plug into the outlet, contacts your electrician to replace your obsolete outlet.
Do not defeat the safety purpose of the grounding-type plug.
12. **POWER CORD PROTECTION**
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. LIGHTNING
To protect your unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

14. POWER LINES
An outside antenna system should not be located in the vicinity of overhead power lines, or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

15. OVERLOADING
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

16. OBJECT AND LIQUID ENTRY
Do not push objects through any openings in this unit as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

17. OUTDOOR ANTENNA GROUNDING
If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

18. SERVICING
Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. DAMAGE REQUIRING SERVICE
Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power-supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the unit.
c. If the unit has been exposed to rain or water.
d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
e. If the unit has been dropped or the cabinet has been damaged.
f. When the unit exhibits a distinct change in performance, this indicates a need for service.

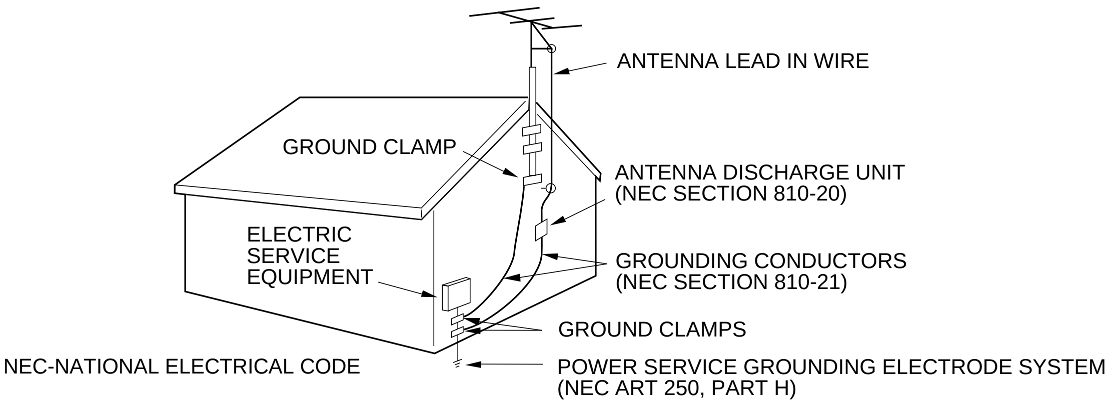
20. REPLACEMENT PARTS
When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part.
Unauthorized substitutions may result in fire, electric shock or other hazards.

21. SAFETY CHECK
Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

22. HEAT
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

23. NOTE TO CATV SYSTEM INSTALLER
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE



3L00301A P01-03 4 14/2/2002, 18:59

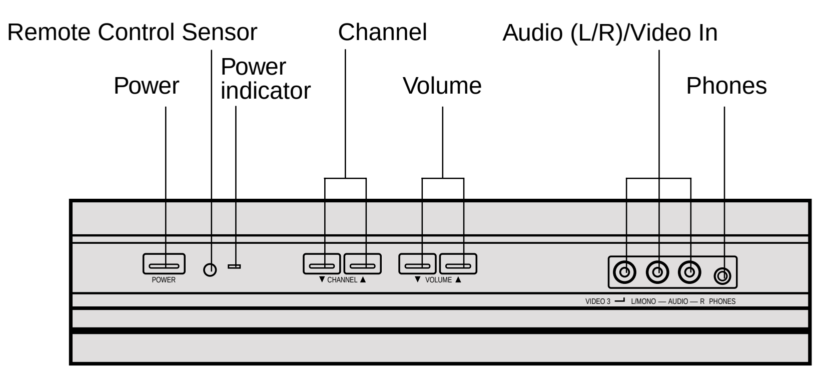
Welcome to Toshiba

Congratulations! You have purchased one of the finest color TVs on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible. Please make sure you've received the following items: TV, remote control, batteries, manual, registration card, and extended service plan literature. If you did not receive all of the items, or any of the items are damaged or broken, please contact your Toshiba dealer. In addition, you may need to purchase other audio or video cables to connect your equipment. See "Connecting your TV" on page 4 for more information.

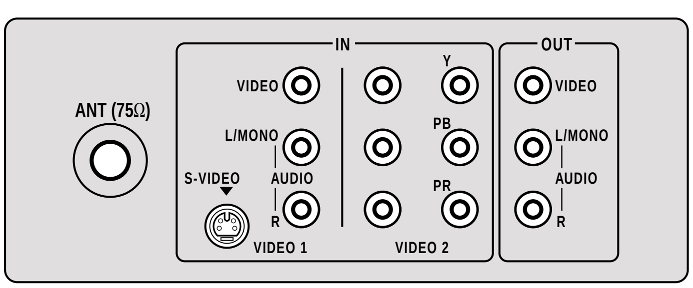
Please read all the safety and operating instructions carefully before you begin.

Exploring your new TV

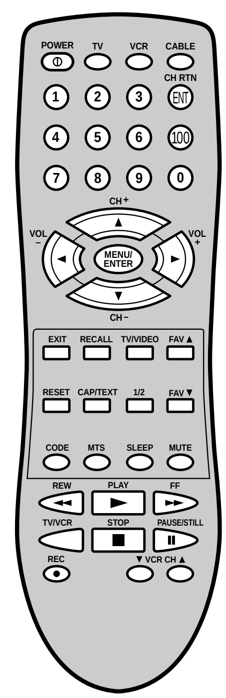
You can operate your TV by using the buttons on the front panel or the remote control. All the terminals on the front and the back panels provide all the connections you will need to connect other equipment to your TV.



TV front panel



TV back panel



Selecting a location for the TV

- Place the TV on the floor or on a sturdy platform in a location where light does not directly hit the screen.
- Place the TV far enough from the walls to allow proper ventilation. Inadequate ventilation may cause overheating, which may damage the TV.

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

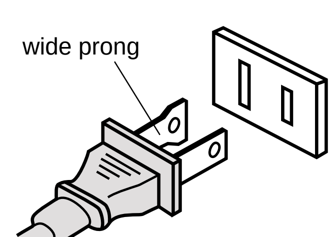
Model number: ____________________

Serial number: ____________________

Caution:

The power plug has one prong wider than the other and will fit only one way into a standard electrical outlet (120 volt AC, 60 Hz). If the plug does not fit into the outlet, try turning it around. If the plug still does not fit, the outlet is probably non-standard and must be replaced by a qualified electrician.

Do not tamper with the plug or try to force it into a non-standard outlet.

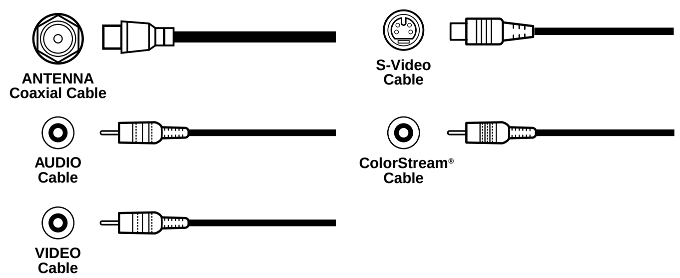


Connecting your TV

If you haven't connected electronic equipment before, or you have been frustrated in the past, you may wish to read this section. (Cables are not supplied.)

- A coaxial cable is the standard cable that comes in from your antenna or cable converter box. Coaxial cables use "F" connectors.
- Audio and video cables are usually color coded according to use: yellow for video and red and white for audio. The red audio cable is for the stereo right channel, and the white audio cable is for the stereo (or mono) left channel. If you look at the rear panel of the TV, you will see that the terminals are color coded in the same manner as the cables.
- S-video cables provide better picture performance. S-video cables can only be used with S-video compatible components.
- ColorStream® cables come in sets of three and provide the best picture performance. ColorStream cables can only be used with ColorStream compatible components.

Caution:
Do not plug the TV in until you have finished connecting all of your equipment.



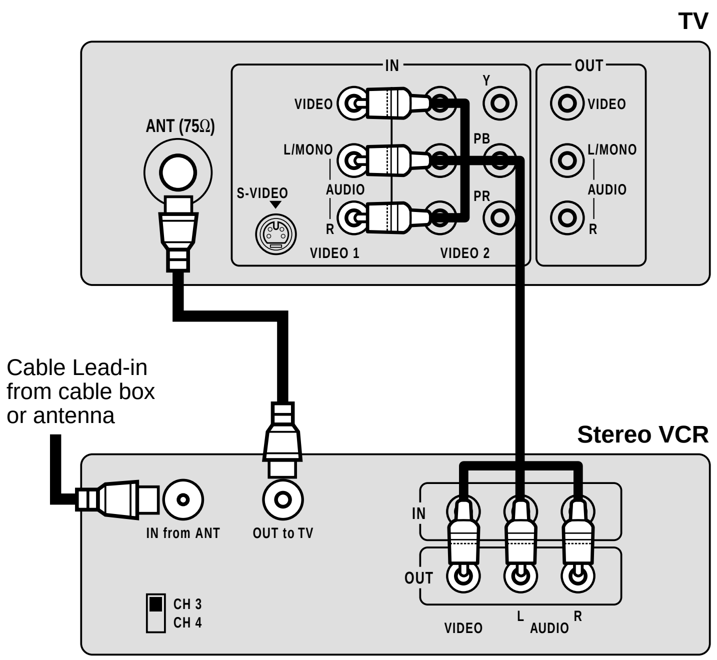
Connecting a VCR

This connection allows you to watch local channels and video programs, play or record on the VCR while watching TV, and to record from one channel while watching another channel.

You will need:
- one coaxial cable
- one pair of audio cables (only one cable for a mono VCR)
- one video cable

Caution:
If using a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable. If you have a S-VHS VCR, use the S-video connections and remove the video cable.

Note:
Do not connect a regular video cable and an S-video cable to Video 1 simultaneously.



Connecting a cable converter box

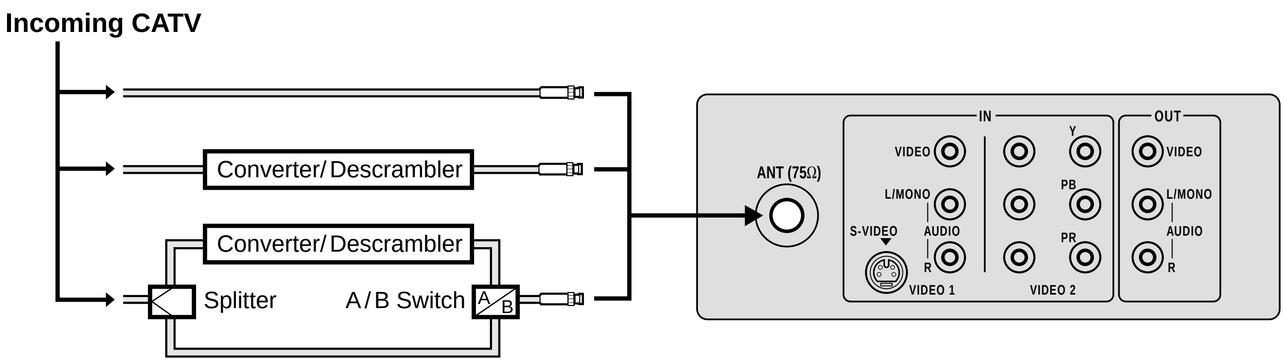
This television has an extended tuning range and can tune most cable channels without using a cable company supplied converter box. Some cable companies offer "premium pay channels" in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device, which is generally provided by the cable company.

For Subscribers to Basic Cable TV Service
For basic cable service not requiring a Converter/Descrambler box, connect the CATV 75 ohm Coaxial Cable directly to the Antenna Jack on the back of the television.

For Subscribers to Scrambled Cable TV Service
If you subscribe to a cable service that requires the use of a Converter/ Descrambler box, connect the incoming cable to the Converter/ Descrambler box and connect the output of the box to the Antenna Jack on the back of the television. Follow the connections shown below. Set the television to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.

For Subscribers to Unscrambled Basic Cable with Scrambled Premium Channels
If you subscribe to a cable service in which basic cable channels are unscrambled and premium channels require the use of a Converter/ Descrambler box, you may wish to use a two-set signal splitter (sometimes called a "two-set coupler") and an A/B Switch box from the cable installer or an electronics supply store. Follow the connections shown below. With the switch in the "B" position, you can directly tune any nonscrambled channels on your TV. With the switch in the "A" position, tune your TV to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the box to tune scrambled channels.

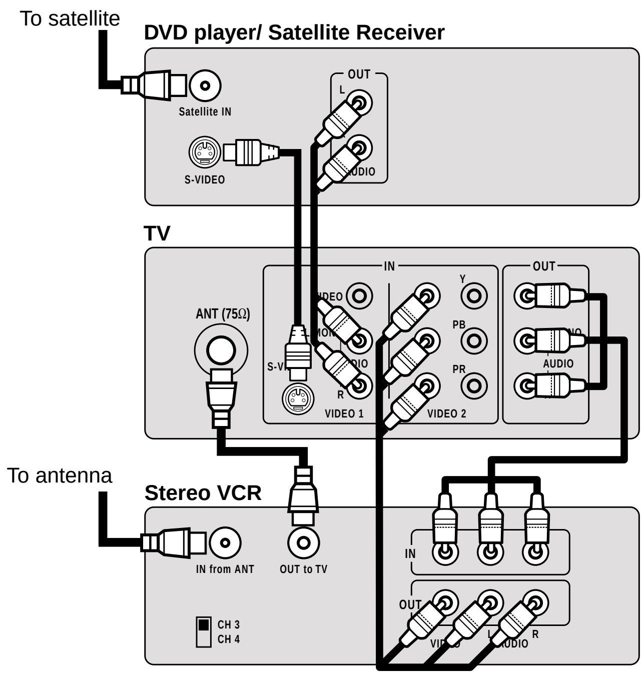
Note:
When you use a converter box with your TV, there may be features that you cannot program using the remote control, such as labeling channels, blocking channels, and programming your favorite channels.



3L00301A P04-11 5 14/2/2002, 18:59

Connecting a DVD player/satellite receiver and a VCR

This connection allows you to watch DVD/satellite, video and TV programs. You can record from the DVD player/satellite receiver and TV, as well as record one TV channel while watching another channel.



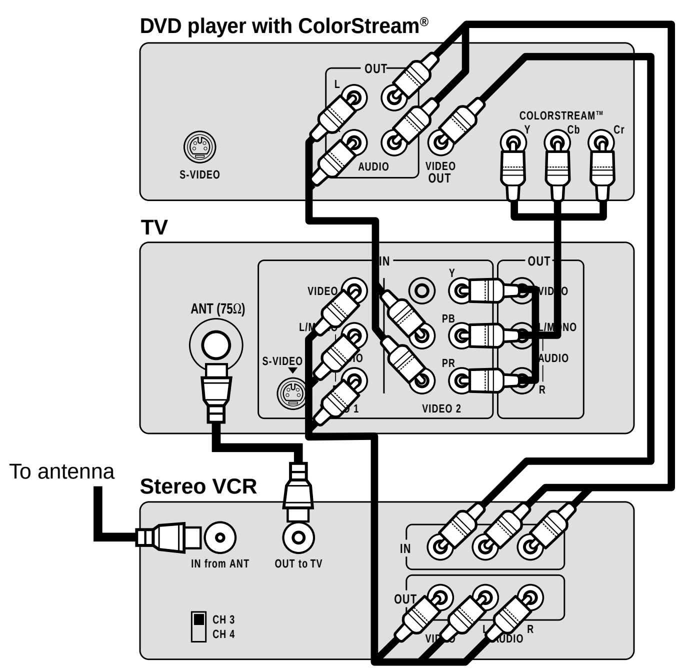
You will need:
- one coaxial cable
- three pairs of audio cables (two pairs and one single audio cable for a mono VCR)
- two video cables
- one S-video cable

Caution:

You can use a video cable instead of the S-video cable, but the picture quality will decrease. If you use an S-video cable between the TV and DVD player/satellite receiver, make the audio connections only and remove the video connection.

Connecting a DVD player with ColorStream® (Component video) and a VCR

This connection allows you to watch DVD, video tape, or TV programs and record DVD or TV programs. You can record from one source while watching a program from another source. Your TV is capable of using ColorStream (component video). Connecting your TV to a component video compatible DVD player, such as a Toshiba DVD player with ColorStream®, can greatly enhance picture quality and performance.



You will need:
- one coaxial cable
- three pairs of audio cables (two pairs and one single audio cable for a mono VCR)
- two video cables
- one set of ColorStream video cables

Caution:

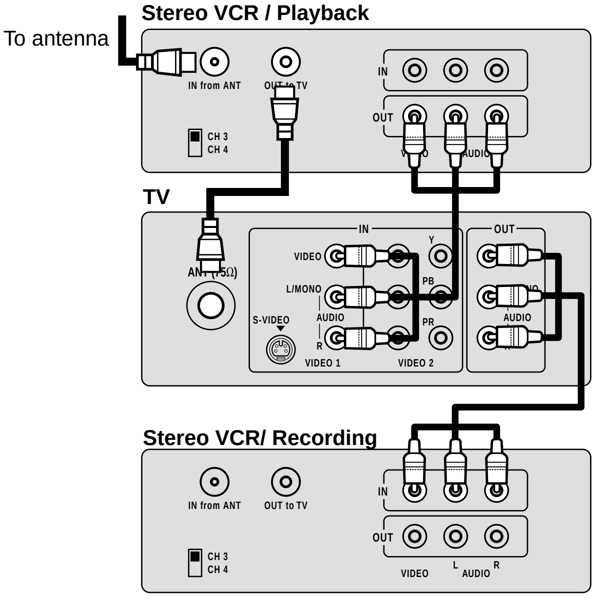
For better picture quality, use ColorStream connections. To record from the DVD player, the DVD player and TV must select Video. The ColorStream selection in the OPTION menu should be DVD mode. See “Selecting the ColorStream mode” on page 21.

The unauthorized recording, use, distribution or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

3L00301A P04-11 6 13/3/2002, 19:02

Connecting two VCRs

This connection allows you to record from one VCR to another VCR while watching a video program. You will also be able to record from one TV channel while watching another channel.



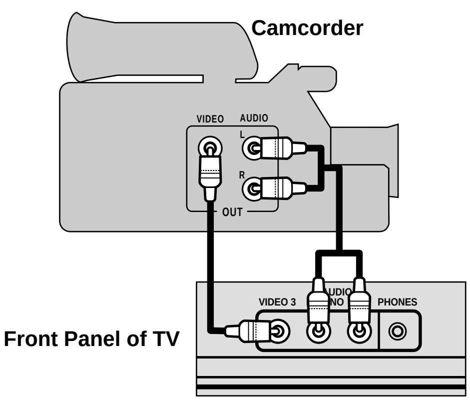
You will need:
- one coaxial cable
- two pairs of audio cables (two single audio cables for mono VCRs)
- two video cables

Caution:

Do not connect one VCR to the output and input jacks on the TV at the same time. If you are using an S-VHS VCR, use the S-video connections and remove the video cable.

Connecting a camcorder

This connection allows you to watch video materials recorded on a camcorder.



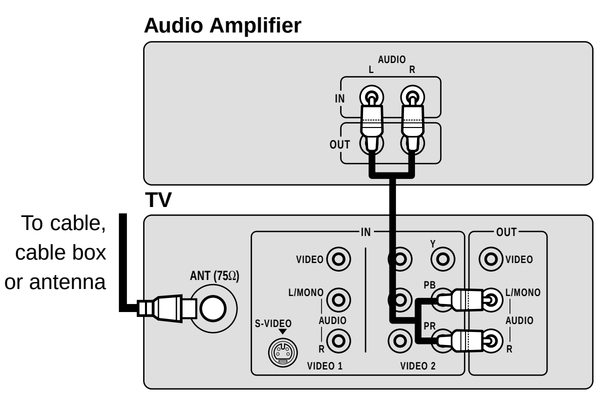
You will need:
- one pair of audio cables
- one video cable

Caution:

If you are using an S-VHS camcorder with S-video output, use the Video1 jacks on the back of the TV.

Connecting an audio amplifier

This connection allows you to use an audio amplifier to enjoy a high-quality sound. This also allows you to use external speakers.
To control the audio, turn on the TV and the stereo amplifier.



You will need:
- one pair of audio cables

The unauthorized recording, use, distribution or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Using the remote control

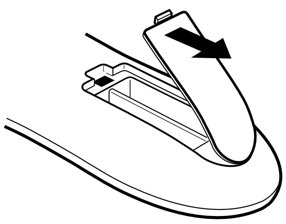
Preparing the remote control for use

With the remote control, you can operate your TV, most VCR models, and cable TV converters together, even if they are different brands. If you will be using your TV with a Toshiba VCR, your remote control is already programmed and ready to use. If you own different brands of VCRs and/or converters, you first have to program your remote control. (See “Programming the remote control for use with a VCR or a cable TV converter” on page 9.)

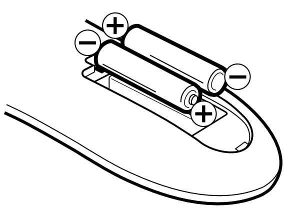
Installing the remote control batteries

To install the batteries:

1. Open the battery cover on the back of the remote control.



2. Install two “AAA” size batteries. Match the + and – signs on the batteries to the signs on the battery compartment.



3. Close the battery cover on the remote control until the lock snaps.

Note:

This remote control’s functions may or may not operate your VCR or cable TV converter. Refer to the owner’s manuals supplied with the equipment to see which features are available. In addition, the original controllers may have features not available on this remote control. If you would like to continue to use these features, you may want to use the original remote control.

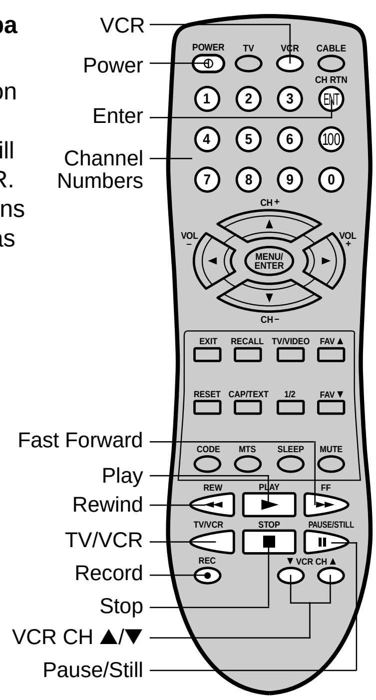
Caution:

- *Dispose of batteries in a designated disposal area. Do not throw batteries into a fire.*
- *Do not mix battery types or combine used batteries with new ones.*
- *Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.*
- *If you do not intend to use the remote control for a long time, remove the batteries.*

Using the remote control with a VCR or a cable TV converter

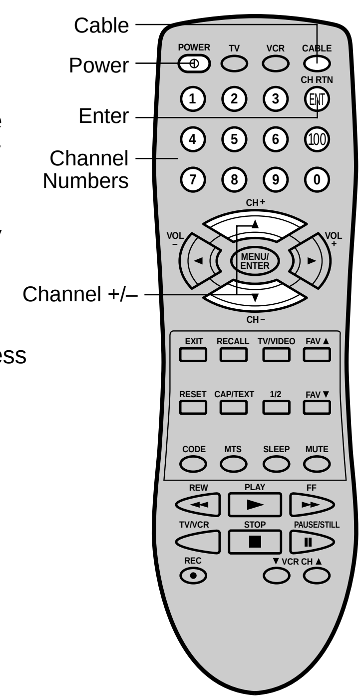
To control a Toshiba VCR:

Press the VCR button first. The buttons shown to the right will then control the VCR. The rest of the buttons will operate the TV as usual.



To control a cable TV converter:

Program the remote control to recognize the brand of your converter (see “Programming the remote control for use with a VCR or cable TV converter”, on page 9). The buttons shown on the right will control the cable TV converter. Press the CABLE button first.



Programming the remote control for use with a VCR or a cable TV converter

This remote control is pre-programmed to operate Toshiba VCRs. To use VCRs or cable converters other than Toshiba models, you must follow the steps below before you operate your remote control.

1. Press the CODE button and the VCR or the CABLE button you want to program at the same time.
2. Enter the 2-digit code listed below using the Direct Channel Selection buttons (0-9) within 10 seconds.
3. Point the remote control at the VCR or converter and press POWER to test the code.
   If the VCR or converter turns on, you have entered the right code.
   If the VCR or converter does not respond to the remote control, you may have entered the wrong code. Repeat steps 1-2 with another code.

For future reference, write down the codes you used:

VCR code ________________________

Cable TV converter code ____________

Note:

- *When shipped from the factory, the remote control is set to operate your TV.*
- *If you do not enter the code within 10 seconds from step 1 or if you enter a code not listed below, this operation is canceled.*
- *Each time you replace the batteries, you must reprogram the remote control.*
- *Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled "VCR1/VCR2".*
  If your VCR has this kind of switch, and does not respond to any of the codes for your VCR, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control.

VCR and cable TV converter codes

VCR			
Admiral	08, 61	Multi Tech	39
Adventura	31	NEC	02, 18
Aiwa	31	Orion	33, 50
Akai	23, 38, 41	Panasonic	14, 51, 59
Audio Dynamics	02, 18	Pentax	15
Bell & Howell	06, 47	Philco	07, 14
Broksonic	21, 26, 33, 50, 55	Philips	07, 14, 27
Canon	14	Pioneer	10, 15
Citizen	09	Portland	46
Craig	12	Pro Scan	16, 60
Curtis Mathes	14, 59	Quasar	14, 59
Daewoo	44, 46, 48, 54	RCA	15, 16, 20, 27, 40, 42, 60
Daytron	36, 46	Realistic	06, 08, 12, 14, 31
DBX	02, 18	Samsung	20, 30
Emerson	03, 21 23, 26, 33, 35, 43, 50	Sansui	39
Fisher	11, 12, 13, 47	Sanyo	06, 12, 47
Funai	31	Scott	04, 05, 33, 43
General Electric	14, 16, 20	Sears	06, 09, 11, 12, 15
Goldstar	09	Sharp	08, 61
Go Video	56, 62, 63	Shintom	39
Hitachi	15, 57	Signature 2000	08, 14, 16, 19, 31, 49
Instant Replay	14, 27	Sony	17, 32, 37
J.C. Penney	14, 15, 18, 27	Sylvania	07, 14, 27
JVC	02, 25, 58	Symphonic	31
Kenwood	02	Tashiko	09
Logik	39	Tatung	02
LXI	09, 31	Teac	02, 31
Magnavox	07, 14, 31	Teknika	34
Marantz	07, 18	Toshiba	05, 15
Marta	09	XR1000	39
Memorex	06, 12, 14, 31, 33	Vector Research	04, 18
Mitsubishi	04, 22, 52, 64	Yamaha	02, 18
Montgomery Ward	08, 14, 16, 19, 31, 49	Zenith	01, 24, 25, 29, 37

CABLE TV CONVERTER			
Allegro	58, 62	RCA DSS	73
Allegro A/B Switch	61	Regency	29
Gemini	05, 31, 38	Samsung	35
General Electric	67	Scientic Atlanta	16, 23, 36, 64
General Instrument	05, 06	Sprucer	13
Hamlin	02, 03, 45, 65, 66	Standard Comp	35
Jerrold	04, 07, 08, 09, 10, 18, 60, 63	Texscan	39, 56, 71
Kale Vision	35	Tocom	17, 18, 46
Macom	14, 21	Unika	48, 62
Magnavox	34	United Satellite	44
NSC	35, 39, 68, 69, 70	Universal	58, 62
Oak	11, 32, 42	Vid Tech	40
Panasonic	13, 20	Video Way	49
Paragon	33	Viewstar	54, 55, 72
Philips	47, 50, 52, 54, 55	Zenith	01, 53, 74
Pioneer	15, 43	Zenith Satellite	12, 28, 30, 51

Learning about the remote control

POWER turns the TV on and off (page 8)

Sleep timer sets the TV to go off at a set time (page 22)

TV/Video selects video input source (page 21)

Channel + / – cycles through programmed channels (page 12)

TV/VCR/Cable switches between TV, VCR and Cable (page 8)

Channel Numbers allow direct access to channels (page 12)

Volume + / – adjusts the volume level

Channel Return returns to the last viewed channel (page 13)

Menu/Enter allows access to programming menus, and sets programmed menu information (pages 11-25)

Favorite Channels ▲▼ cycles through favorite channels (page 13)
Reset resets settings to preset factory formats (pages 21 and 24)

CAP/TEXT turns closed captions or text on and off (page 22)

1/2 selects closed caption/text channel 1 or 2 (page 22)

Mute turns off the sound (page 23)

MTS switches among STEREO, SAP and MONO sound (page 23)

Recall displays screen information (page 21)

CODE is used to program the remote control (page 9)

Exit exits programming menus (pages 11-25)

Stop press to stop a videotape

Rec press to start recording a videotape

Play press to play a videotape

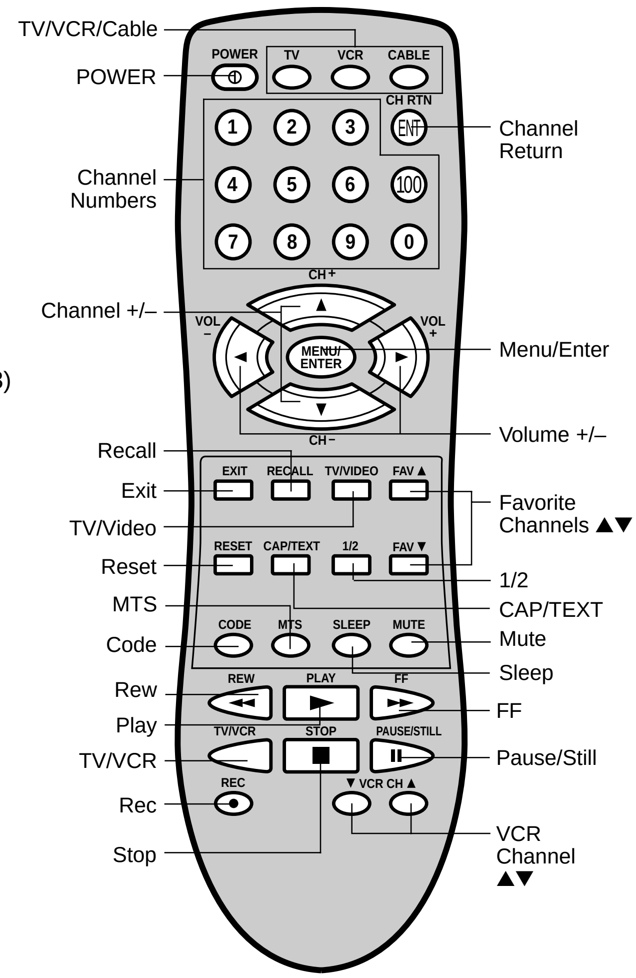
FF press to fast forward a videotape

Rew press to rewind a videotape

Pause/Still press to pause or still a videotape

TV/VCR toggles between TV and VCR when viewing while recording

VCR Channel ▲▼ cycles through programmed channels of VCR



Setting up your TV

After you've installed the batteries and programmed the remote control, you need to set some preferences on the TV using the menu. You can access the menu with the buttons on the remote control.

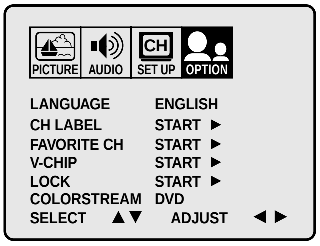
- When you make a menu selection, your changes occur immediately. You do not have to press MENU or EXIT to see your changes.
- After fifteen seconds, the menu screen will automatically disappear if you do not make a selection. Your changes will still be saved.
- When you are finished programming the menus, press EXIT.

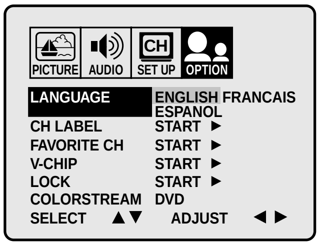
Changing the on-screen display language

You can choose from three different languages (English, French and Spanish) for the on-screen displays. Adjustment menus and messages will appear in the language of your choice.

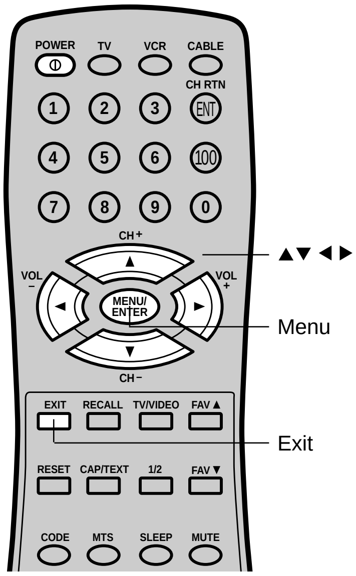
To select a language:

1. Press MENU, then press ◀ or ▶ until the OPTION menu appears.





2. Press ▲ or ▼ to highlight LANGUAGE.
3. Press ◀ or ▶ to highlight your desired language.



3L00301A P04-11 11 14/2/2002, 18:59

Adding channels to the TV's memory

Your TV will stop on specific channels that are stored in the TV's channel memory when you press Channel + or –. Use the steps below to set all active channels in your area automatically.

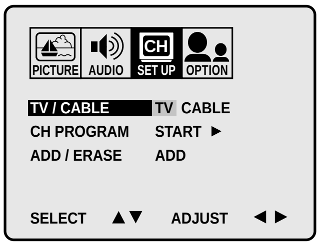
Programming channels automatically

Your TV can automatically detect all active channels and store them in its memory. After the TV has stored the channels in its memory automatically, you can add or erase channels manually.

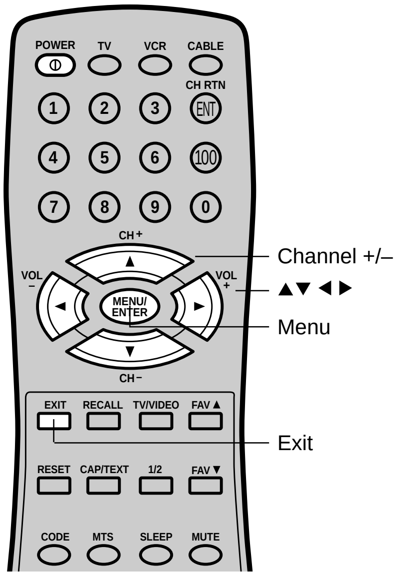
To add channels automatically:

1. Press MENU, then press ◀ or ▶ to display the SET UP menu.
2. Press ▲ or ▼ until the TV/CABLE selection is highlighted.
3. Press ◀ or ▶ to highlight either TV or CABLE, depending on which you use.

   If you use an antenna, choose TV.
   If you use cable, choose CABLE.



4. Press ▼ to select CH PROGRAM.
5. Press ◀ or ▶ to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory.
   While the TV is cycling through the channels, the message "PROGRAMMING NOW PLEASE WAIT" appears.
6. When channel programming is complete, the message "COMPLETED (channel or cable number)" appears.
7. Press Channel ▲ or ▼ to view the programmed channels.

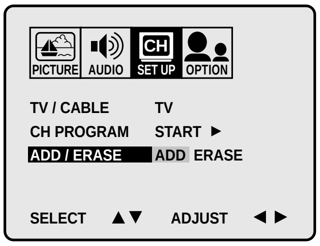


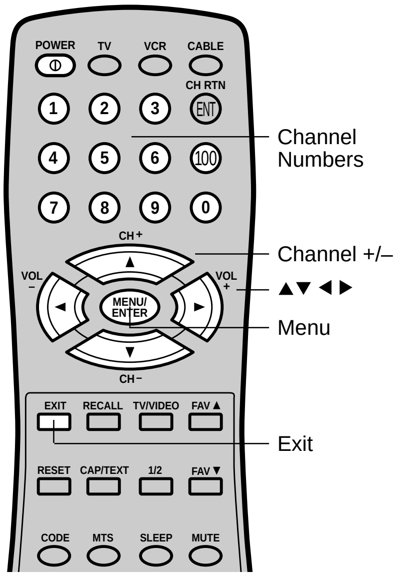
Adding and erasing channels manually

After you have programmed the channels automatically, you can add or erase specific channels manually.

To add or erase channels manually:

1. Select the channel you want to add or erase.
   If adding channels, you must select the channel to add using the Channel Number buttons.
2. Press MENU, then press ◀ or ▶ to display the SET UP menu.
3. Press ▲ or ▼ to highlight ADD/ERASE.
4. Press ◀ or ▶ to select ADD or ERASE, whichever function you want to perform.
5. Repeat steps 1-4 for other channels you want to add or erase.





Changing channels

To change the channel, you can:

- change the programmed channels using the remote control
- select a channel directly using the remote control
- scan the channels using the TV buttons

To change to the next programmed channel:
Press Channel + or – on the TV or remote control.

To change to a specific channel (programmed or unprogrammed):
Press the Channel Number buttons (0-9 and 100).
For example, to select channel 125, press the 100 button, the 2 button, and the 5 button.

3L00301A P12-21 12 14/2/2002, 18:59

Using the TV's features

Adjusting the channel settings

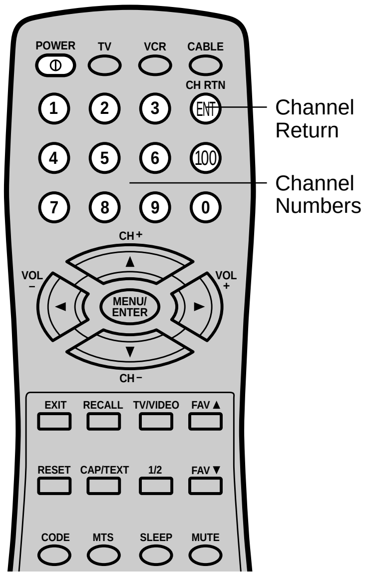
Switching between two channels

You can switch between two channels without entering an actual channel number each time.

To switch between two channels:

1. Select the first channel you want to view.
2. Select a second channel using the Channel Number buttons (0-9, 100).
3. Press CH RTN. The previous channel will be displayed.

Each time you press CH RTN, the TV will switch back and forth between the two channels.

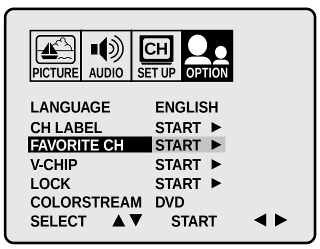


Programming your favorite channels

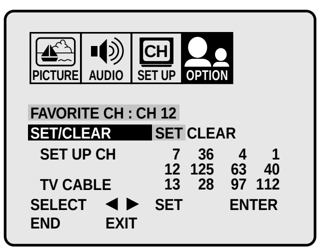
You can preset up to 12 of your favorite channels using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.
You can still use Channel ▲▼ to scan through all the channels you programmed in the TV's memory.

To program your favorite channels:

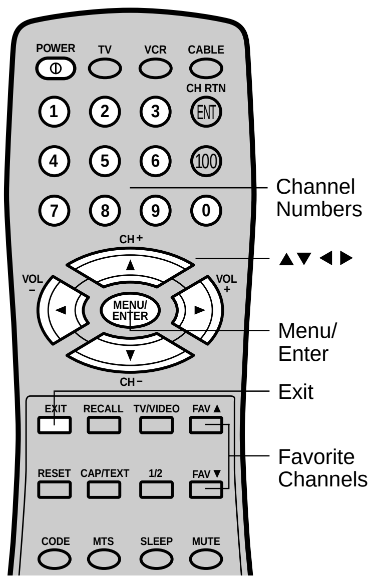
1. Select a channel you want to program.
2. Press MENU, then press ◀ or ▶ to display the OPTION menu.
3. Press ▲ or ▼ to highlight FAVORITE CH.



4. Press ◀ or ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.



5. Press ◀ or ▶ to highlight SET and press ENTER.
6. Press EXIT to clear the screen.
7. Repeat steps 1 through 6 for up to 11 other channels.



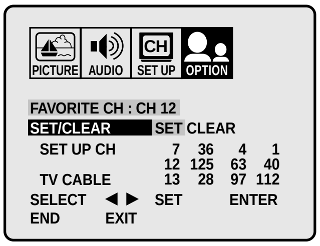
To select your favorite channels:

Press the FAV ▲ ▼ buttons on the remote control to select your favorite channels.
The FAV ▲ ▼ buttons will not work until you have programmed your favorite channels.

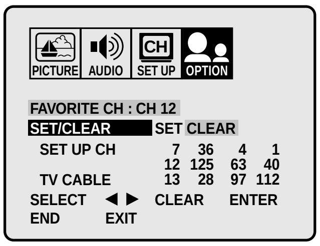
3L00301A P12-21 13 14/2/2002, 18:59

To clear your favorite channels:

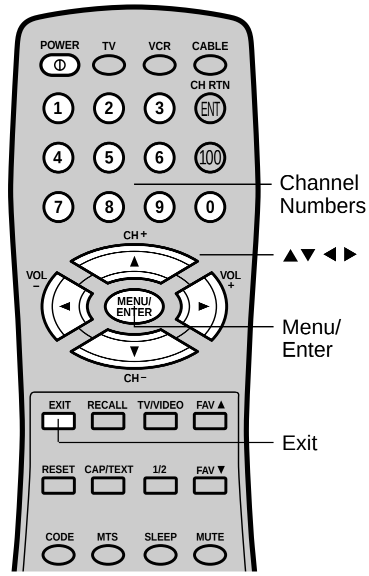
1. Select a channel you want to clear.
2. Press MENU, then press ◀ or ▶ to display the OPTION menu.
3. Press ▲ or ▼ to highlight FAVORITE CH.
4. Press ◀ or ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.



5. Press the ◀ or ▶ to highlight CLEAR.



6. Press ENTER until “0” replaces the channel number you want to erase.
7. Press EXIT to clear the screen.
8. Repeat steps 1 through 6 for the other channels.



Using the V-Chip (parental control) feature

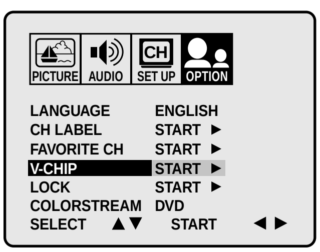
You can prevent others from viewing certain programs or channels by blocking them using the V-Chip feature.

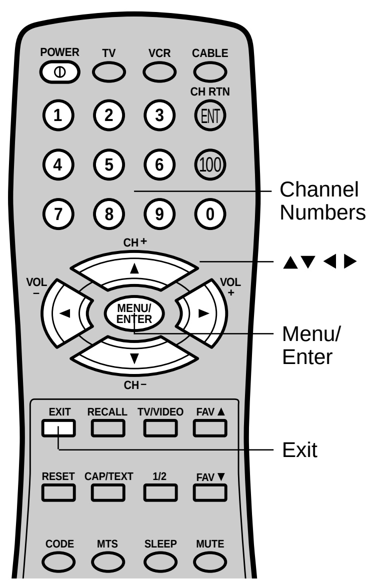
Selecting a PIN code

Before you can block programs and channels, you must select a personal identification number (PIN) code. The PIN code you select prevents others from changing the rating limits you set.

To select your PIN code and access the V-Chip menus:

1. Press MENU, then press ◀ or ▶ to highlight the OPTION menu.
2. Press ▲ or ▼ to highlight V-CHIP.



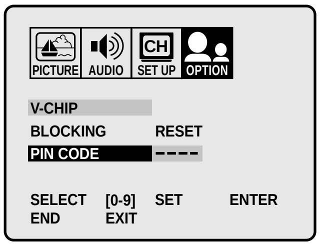


Note:

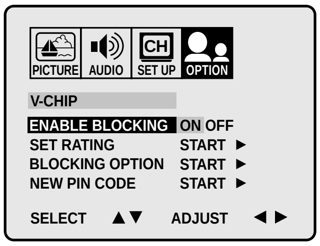
This selected PIN code is also used in the LOCK menu; see pages 18-19.

3L00301A P12-21 14 14/2/2002, 18:59

3. Press ◀ or ▶ to display the V-CHIP menu.



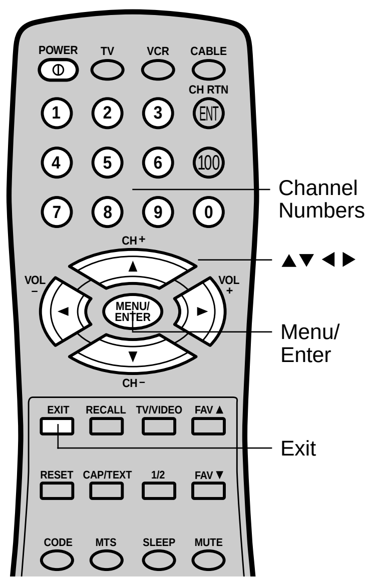
4. Use the Channel Number buttons (0-9) to enter your PIN code.
   If you are accessing the V-Chip menus for the first time, select a four-digit number to be your PIN code. Press ENTER. The BLOCKING menu appears.



5. You may now enable blocking. See “Blocking programs by ratings” (below), “Locking channels” (page 18), “To change your PIN code” (below), or “Blocking unrated movies or programs” (page 18).

Note:
If you forget your PIN code, press RECALL four times within five seconds from the V-CHIP menu. This allows you to proceed to the BLOCKING menu and resets your PIN code.

To change your PIN code:
1. Press MENU, then press ◀ or ▶ to display the OPTION menu.
2. Press ▲ or ▼ to highlight V-CHIP.
3. Press ◀ or ▶ to display the V-CHIP menu.
4. Use the Channel Number buttons (0-9) to enter your PIN code.
   If you are accessing the V-Chip menus for the first time, select a four-digit number to be your PIN code. Press ENTER. The BLOCKING menu appears.
5. Press ▲ or ▼ to highlight NEW PIN CODE and press ◀ or ▶ to display the NEW PIN CODE menu.
6. Use the Channel Number buttons (0-9) to enter a new code. Press ENTER.
7. Press EXIT to return to the normal viewing.



Blocking programs by ratings

The Motion Picture Association of America (MPAA) uses a rating system to qualify motion picture content. Television broadcasters employ a rating system to qualify the content of television programs, as well. The MPAA, Youth TV and TV ratings work with the V-Chip feature and allow you to block out programming above the rating limits you determine.

3L00301A P12-21 15 14/2/2002, 18:59

MPAA Ratings

X	For adults only.
NC17	Not intended for anyone 17 or under.
R	Restricted. Under 17 requires an accompanying parent or adult guardian.
PG13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
PG	Parental guidance suggested. Some material may not be appropriate for children.
G	General audience. Appropriate for all ages.

Youth TV Ratings

Y7FV, Y7, Y	Directed to older children. This program is designed for children age 7 and above. Programs in which fantasy violence may be more intense or combative than other programs in this category are designated TV-Y7-FV.
Y	All children. This program is designed to be appropriate for all children.

TV Ratings

MA Mature audience only. This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.

Language	Crude or indecent language.
Sex	Explicit sexual activity.
Violence	Graphic violence.

14 Parents strongly cautioned. This program contains some material that many parents would find unsuitable for children under 14 years of age.

Dialog	Intensely suggestive dialog.
Language	Strong, coarse language.
Sex	Intense sexual situations.
Violence	Intense violence.

PG Parental guidance suggested. This program contains material that parents may find unsuitable for younger children.

Dialog	Some suggestive dialog.
Language	Infrequent coarse language.
Sex	Some sexual situations.
Violence	Moderate violence.

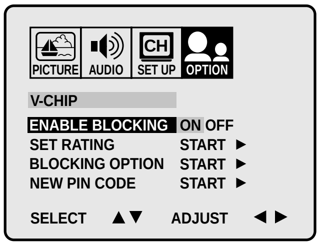
G General audience. Most parents would find this program suitable for all ages.

No DLSV Programs without any Dialog, Language, Sex or Violence ratings.

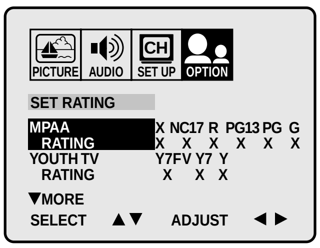
Note:
To see the rating of the program you are viewing, press RECALL at any time.

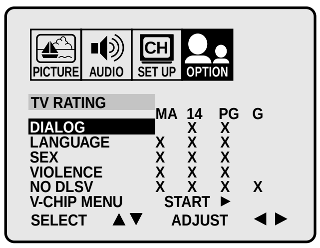
To use the V-Chip to block programs by rating:

1. Press MENU, then press ◀ or ▶ to display the OPTION menu.
2. Press ▲ or ▼ to highlight V-CHIP.
3. Press ◀ or ▶ to display the V-CHIP menu.
4. Use the Channel Number buttons (0-9) to enter your PIN code.
   If you are accessing the V-Chip menus for the first time, select a four-digit number to be your PIN code. Press ENTER.
   The BLOCKING menu appears.



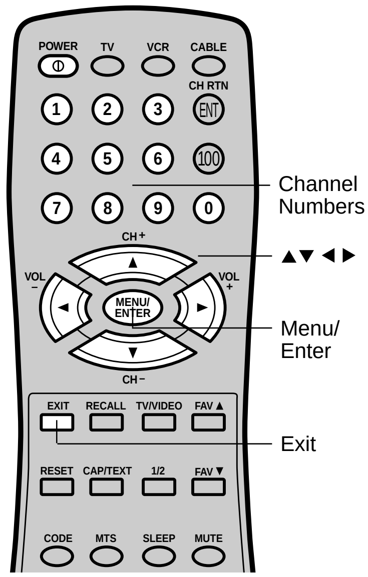
5. Press ▲ or ▼ to highlight ENABLE BLOCKING.
   - Press ◀ or ▶ to highlight ON to enable the V-Chip and program blocking by rating.
   - Press ◀ or ▶ to highlight OFF to disable the V-Chip and program blocking by rating.
6. Press ▲ or ▼ to highlight SET RATING. Then, press ◀ or ▶ to display the SET RATING menu.





7. Press ▲ or ▼ to highlight MPAA Rating, Youth TV Rating or individual TV Ratings.
8. Press ◀ or ▶ to select the ratings that will be blocked. Blocked ratings are signified by a red "X". Unblocked ratings are signified by a green "✓". As you block ratings, all ratings higher than the ones you select are blocked, as well. For example, if you choose to block the MPAA rating R, the higher ratings, NC17 and X, are automatically blocked, too.
9. When you are done selecting the ratings to be blocked, press EXIT to return to the normal viewing.

When you try to view a program with a ratings block, a message will appear listing the program's ratings. The program can still be viewed if you press MUTE and then enter your PIN code to temporarily bypass the block.



Note:
Not all programs are rated. To block programs or movies that are unrated, see "Blocking unrated movies or programs", page 18.

Blocking unrated movies or programs

Some movies and programs are not rated. You can block these movies and programs using the V-Chip.

To block unrated movies or programs:

1. Press MENU, then press ◀ or ▶ to display the OPTION menu.
2. Press ▲ or ▼ to highlight V-CHIP.
3. Press ◀ or ▶ to display the V-CHIP menu.
4. Use the Channel Number buttons (0-9) to enter your PIN code. If you are accessing the V-Chip menus for the first time, select a four-digit number to be your PIN code. Press ENTER. The BLOCKING menu appears.
5. Press ▲ or ▼ to highlight BLOCKING OPTION.
6. Press ◀ or ▶ to display the BLOCKING OPTION menu.
7. Press ▲ or ▼ to highlight MPAA UNRATED.
   - Press ◀ or ▶ to highlight ON to block unrated movies.
   - Press ◀ or ▶ to highlight OFF to unblock unrated movies.
8. Press ▲ or ▼ to highlight TV NONE RATING.
   - Press ◀ or ▶ to highlight ON to block programs with a rating of “TV NONE.” When you select ON, the message “NOTICE: ENABLING THIS OPTION MAY BLOCK EMERGENCY MESSAGES” appears.
   - Press ◀ or ▶ to highlight OFF to unblock programs with a rating of “TV NONE”.
9. Press EXIT to return to the normal viewing.

Note:
Blocking television programs with a rating of “TV NONE” may block emergency messages.

Using the LOCK menu

The LOCK menu includes the CH LOCK, VIDEO LOCK, GAME TIMER and NEW PIN CODE functions.
You can use these functions after entering the correct PIN code. (This PIN code is the same one selected under "Selecting a PIN code" on page 14.)

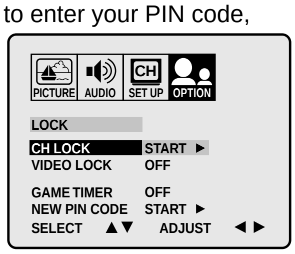
Locking channels

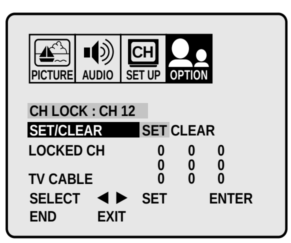
With the CH LOCK feature, you can lock specific channels. You will not be able to tune locked channels unless you clear the setting. You can choose to lock up to nine TV channels and nine cable channels.

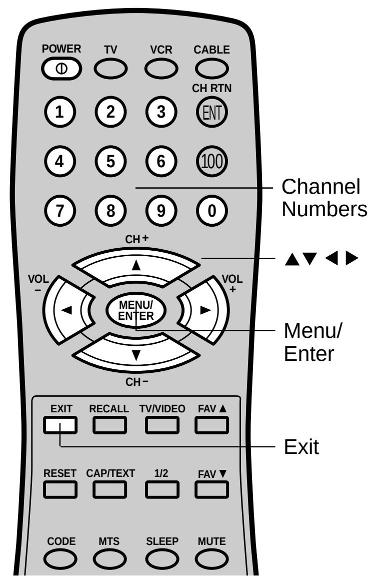
To lock channels:

1. Use the Channel Number Buttons (0-9) to display the television channel you wish to lock.
2. Press MENU, then press ◀ or ▶ to display the OPTION menu.
3. Press ▲ or ▼ to highlight LOCK.
4. Press ◀ or ▶ to display the LOCK menu.
5. Use the Channel Number buttons (0-9) to enter your PIN code, then press ENTER. The LOCK menu appears.
6. Press ▲ or ▼ to highlight CH LOCK and press ◀ or ▶ to display the CH LOCK menu.
7. Press ◀ or ▶ to select:
   - SET to set the channel as one to be locked.
   - CLEAR to clear all channels from the list of locked channels.
8. Repeat steps 1 through 7 to lock other channels. When you are finished locking channels, press EXIT to return to the normal viewing.

If you try to tune a locked channel, the TV will not display it, but will display the nearest unlocked channel.







Note:
If you are accessing the LOCK menus or V-Chip menus for the first time, choose a four-digit number to be your PIN code.

Note:
After programming CH LOCK, change channels before turning off the television.

To unlock channels:

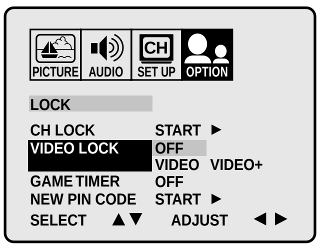
1. Press MENU, then press ◀ or ▶ to display the OPTION menu.
2. Press ▲ or ▼ to highlight LOCK and then press ◀ or ▶ to display the LOCK menu.
3. Use the Channel Number buttons (0-9) to enter your PIN code, then press ENTER. The LOCK menu appears.
4. Press ▲ or ▼ to highlight CH LOCK and press ◀ or ▶ to display the CH LOCK menu.
5. Press ◀ or ▶ to highlight CLEAR and clear all channels from the list of locked channels. Press ENTER.
6. Press EXIT to return to the normal viewing.

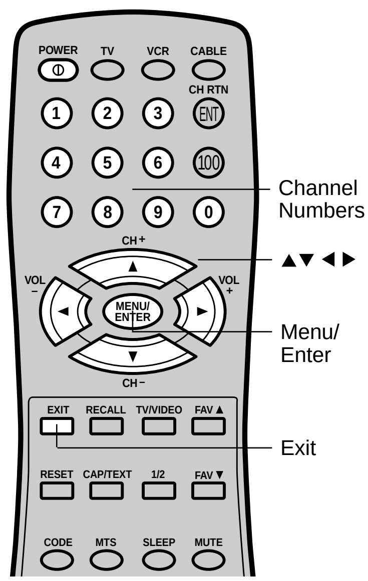
Locking video input

With the VIDEO LOCK feature, you can lock out the input sources (VIDEO1, VIDEO2, VIDEO3, COLORSTREAM) and channel 3 and 4. You will not be able to select the input sources with the TV/VIDEO button or Channel buttons unless you clear the setting.

To set up the video lock:

1. Use the Channel Number Buttons (0-9) to display the television channel you wish to lock.
2. Press MENU, then press ◀ or ▶ to display the OPTION menu.
3. Press ▲ or ▼ to highlight LOCK.
4. Press ◀ or ▶ to display the LOCK menu.
5. Use the Channel Number buttons (0-9) to enter your PIN code, then press ENTER. The LOCK menu appears.
6. Press ▲ or ▼ to highlight VIDEO LOCK.
7. Press ◀ or ▶ to select:
   - OFF: Unlocks all video input sources.
   - VIDEO: Locks VIDEO1, VIDEO2, VIDEO3 and COLORSTREAM.
   - VIDEO +: Locks VIDEO1, VIDEO2, VIDEO3, COLORSTREAM, channel 3 and channel 4. This option should be used if you use the antenna terminal to play a video tape.
8. Press EXIT to return to the normal viewing.



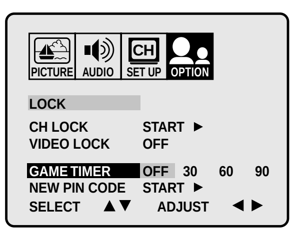


Setting the game timer

With the GAME TIMER feature, you can automatically activate the VIDEO LOCK feature (VIDEO setting) to set a time limit for playing a TV game (30, 60 or 90 minutes).

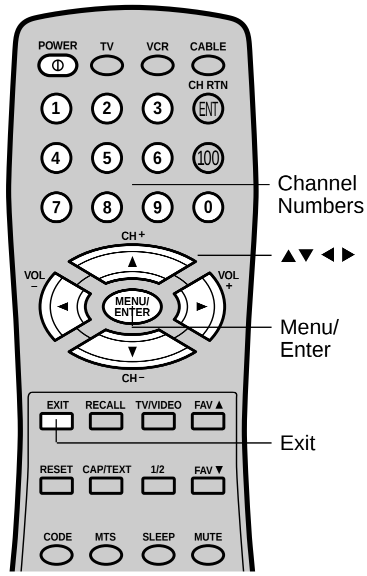
To set up the game timer:

1. Press MENU, then press ◀ or ▶ to display the OPTION menu.
2. Press ▲ or ▼ to highlight LOCK.
3. Press ◀ or ▶ to display the LOCK menu.
4. Use the Channel Number buttons (0-9) to enter your PIN code, then press ENTER. The LOCK menu appears.
5. Press ▲ or ▼ to highlight GAME TIMER.
6. Press ◀ or ▶ to select a time limit (30 minutes, 60 minutes, 90 minutes or OFF).
7. Press EXIT to return to normal viewing. After the GAME TIMER is programmed, the display will appear briefly every ten minutes to remind you that the GAME TIMER is operting.
   When the programmed end time is reached, the display will change the last channel automatically.



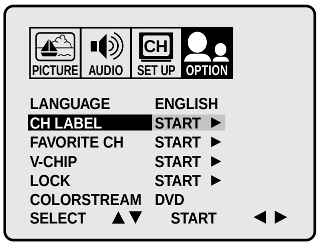
Labeling channels

Channel labels will appear over the channel number display each time you turn on the TV, select a channel, or press the Recall button. You can choose any four characters to identify the channels.

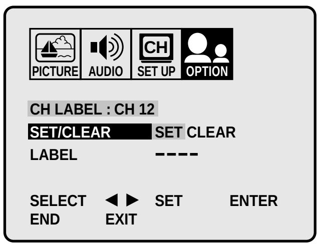


To create channel labels:

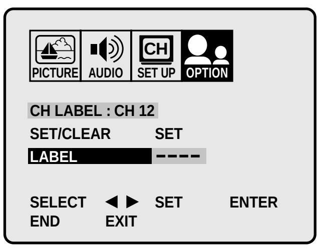
1. Select a channel you want to label.
2. Press MENU then press ◀ or ▶ until the OPTION menu appears.
3. Press ▲ or ▼ to highlight CH LABEL.
4. Press ▶ to display the CH LABEL menu. SET/CLEAR will be highlighted.



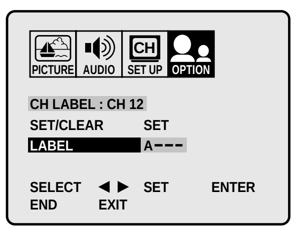
5. Press ◀ or ▶ to highlight SET.



6. Press ▲ or ▼ to highlight LABEL.



7. Press ◀ or ▶ to enter a character in the first space. Press the button repeatedly until the character you want appears on the screen. Press ENTER.
8. Repeat step 7 to enter the rest of the characters.
   If you would like a blank space in the label name, you must choose an empty space from the list of characters. Otherwise, a dash will appear in that space.
9. Repeat steps 1 through 8 for other channels. You can assign a label to each channel.
10. Press EXIT to clear the screen.



Note:
The character will change as below.

– ←→ 0 ←→ ••• ←→ 9 ←→ A ←→ •••
←→ Z ←→ SPACE ←→ + ←→ –

To erase channel labels:

1. Select a channel with a label.
2. Press MENU then press ◀ or ▶ until the OPTION menu appears.
3. Press ▲ or ▼ to highlight CH LABEL.
4. Press ◀ or ▶ to display the CH LABEL menu. SET/CLEAR will be highlighted.
5. Press ◀ or ▶ to highlight CLEAR.
6. Press ENTER.
7. Repeat steps 1 through 6 to erase other channel labels.

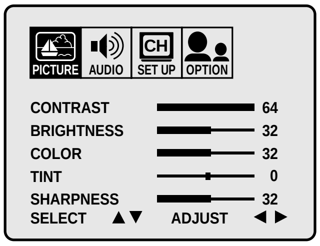
Adjusting the picture

Adjusting the picture quality

You can adjust the picture quality to your personal preferences, including the contrast, brightness, color, tint, and sharpness. The qualities you choose will be stored automatically in your TV's memory so you can recall them at any time.

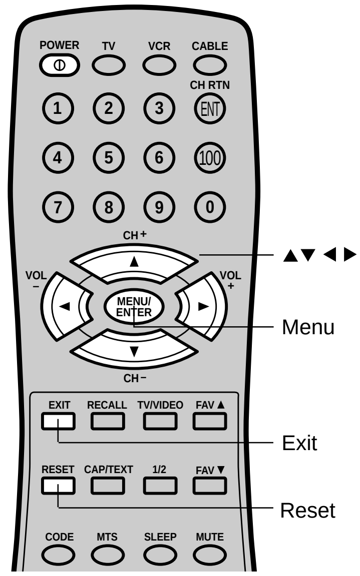
To adjust the picture quality:

1. Press MENU, then press ◀ or ▶ to display the PICTURE menu.



2. Press ▲ or ▼ until the item you want to adjust is highlighted.
3. Press ◀ or ▶ to adjust the level.

The PICTURE items you have adjusted will be stored in theTV's memory automatically.



Note:
To reset the picture adjustments to the factory settings, press RESET.

Selection	◀ Pressing	▶
contrast	lower	higher
brightness	darker	lighter
color	paler	deeper
tint	reddish	greenish
sharpness	softer	sharper

Watching video input

You can use the TV/VIDEO button on the remote to view a signal coming from other devices, such as VCRs or video disc players that may be connected to your TV. (See "Connecting your TV" on page 4.)

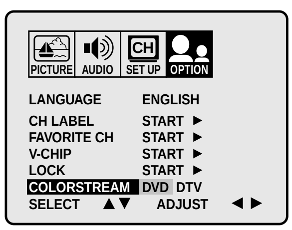
To select the input mode:
Press the TV/VIDEO button repeatedly to select the desired mode. The signal source you are connected to is displayed in light blue.

TV → VIDEO 1 → VIDEO 2 → VIDEO 3 → COLOR STREAM → TV

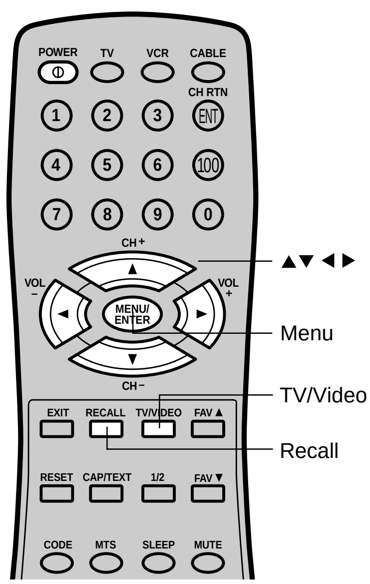
Selecting the ColorStream® mode

You can use the ColorStream input for connecting either a DVD player or a DTV receiver.

1. Press MENU, then press ◀ or ▶ until the OPTION menu appears.
2. Press ▲ or ▼ to highlight COLORSTREAM.
3. Press ◀ or ▶ to highlight DVD or DTV depending on which device is connected.



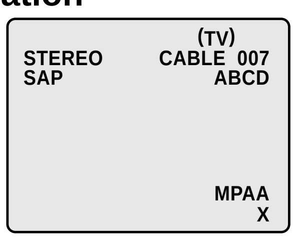
Note:
The factory setting is DVD.



Displaying on-screen information

Press RECALL to display the following on-screen information:

- Channel number or VIDEO mode selected
- Channel label (if preset)
- Stereo or SAP (second audio program) audio status



Setting the sleep timer

You can set the TV so it turns off automatically.

To set the sleep timer:

Repeatedly press the SLEEP button on the remote control. The clock will count down 10 minutes for each press of the SLEEP button (120, 110, ...10, 0). After the sleep time is programmed, the display will appear briefly every ten minutes to remind you that the sleep timer is operating.

To confirm the sleep timer setting:

Press the SLEEP button and the remaining time will be momentarily displayed.

To cancel the sleep timer:

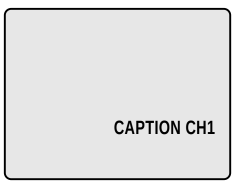
Repeatedly press the SLEEP button until the display turns to 0.

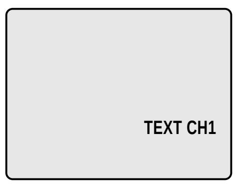
Using the closed caption feature

You have two options with the closed caption feature: captions or text. A caption is a printed version of the dialogue, narration and/or sound effects of a TV program. Text is information not related to the program that appears on half of the TV screen.

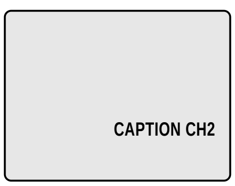
To view captions or text:

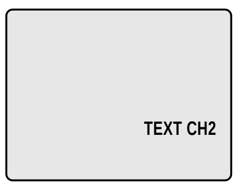
1. Select the desired program. The captioned programs are usually marked in your local TV listing by “CC”.
2. Press CAP/TEXT repeatedly to select caption or text mode.



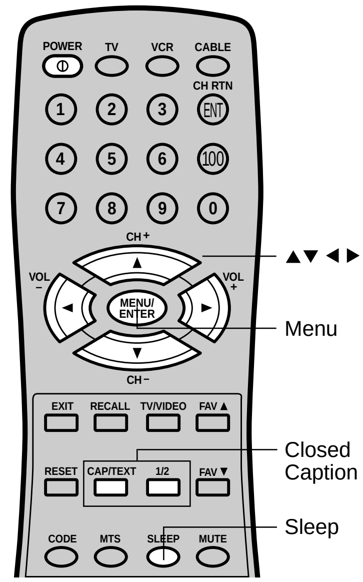


3. Press 1/2 to select the caption or text channel.





4. To turn off the closed-captioned feature, press CAP/TEXT repeatedly until the normal TV viewing appears on the screen.



Note:

A closed caption signal may not be decoded in the following situations:

- *when a video tape has been dubbed*
- *when the signal reception is weak*
- *when the signal reception is non-standard*

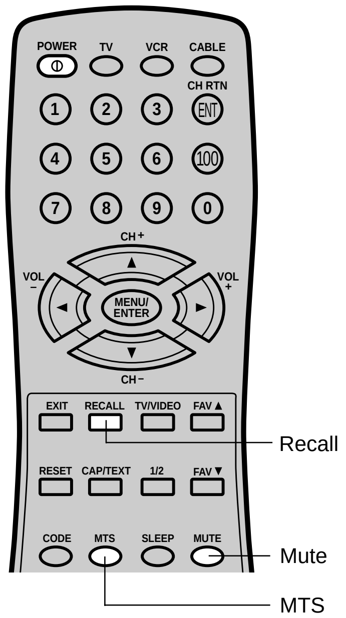
When you choose a closed captioned channel and the text mode, the text screen always appears as a black box. When there is no signal, however, the text screen will not display text characters. Repeatedly press CAP/TEXT until the box disappears.

3L00301A P22-BACK 22 14/2/2002, 18:59

Adjusting the sound

Muting the sound

Press MUTE to temporarily turn off the sound. While the sound is off, the screen will display the word MUTE in the lower right-hand corner. To restore the sound, press MUTE again.



Selecting stereo/SAP broadcasts

You can enjoy watching TV while you listen to high-fidelity stereo sound with the Multi-channel TV Sound (MTS) feature. MTS can also transmit a second audio program (SAP) containing a second language or other audio information.

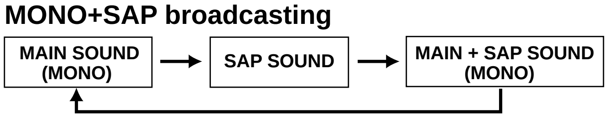
When the TV receives a stereo or SAP broadcast, the word STEREO or SAP appears on-screen every time the TV is turned on, the chanel is changed, or the RECALL button is pressed.
The MTS feature is not available while in the VIDEO mode.

When you are watching a stereo broadcast, the word STEREO is displayed in light blue. You can leave your TV in STEREO mode because it will automatically output stereo or monaural sound, depending on the broadcast type. If the stereo sound is noisy, select MONO to reduce the noise. The word STEREO or SAP is displayed in light blue when the TV receives the signal.

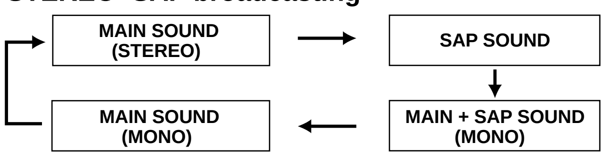
To select desired sound

Press the MTS button to select the desired sound.

MONO+SAP broadcasting



STEREO+SAP broadcasting



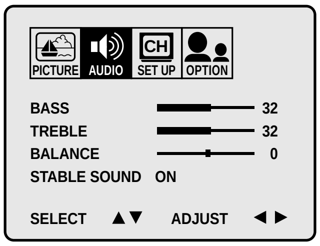
3L00301A P22-BACK 23 14/2/2002, 18:59

Adjusting the sound quality

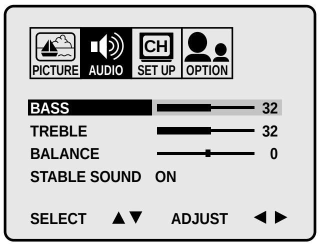
You can change the sound quality of your TV by adjusting the bass, treble, and balance.

To adjust the sound quality:

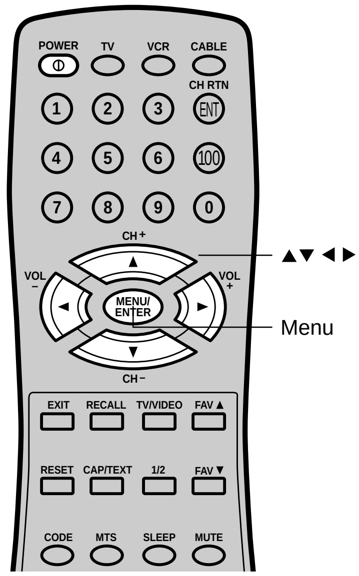
1. Press MENU, then press ◀ or ▶ until the AUDIO menu appears.



2. Press ▲ or ▼ to highlight the item you want to adjust.
3. Press ◀ or ▶ to adjust the level.



- ◀ makes the sound quality weaker or decreases the balance in the right channel, depending on the item selected.
- ▶ makes the sound quality stronger or decreases the balance in the left channel, depending on the item selected.



Note:

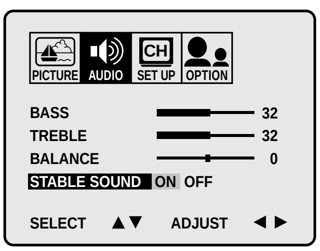
To reset the audio adjustments to the factory settings, press RESET.

Using the StableSound™ feature

The StableSound™ feature limits the highest volume level to prevent extreme changes in volume.

To turn on the StableSound™ feature:

1. Press MENU, then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight STABLE SOUND.
3. Press ◀ or ▶ to highlight ON.



To turn off the StableSound™ feature:

Choose OFF in step 3 above.

3L00301A P22-BACK 24 14/2/2002, 18:59

Auto power off

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or if a station completes its broadcast for the day and stops broadcasting on that channel. This feature does not work in VIDEO mode.

Understanding the Power Return feature

If the power is cut off while you are viewing the TV and the power is resupplied, the Power Return feature will turn the TV on automatically.

If the power is going to be off for a long time or you are going to be away from home for a long time, remove the power plug from the wall outlet to prevent the TV from turning on in your absence.

3L00301A P22-BACK 25 14/2/2002, 18:59

Appendix

Cleaning and care

WARNING:

TV sets use high voltage. Do not try to remove the cabinet back. Refer servicing to qualified service technicians.

To clean the TV screen:

1. Unplug the TV to avoid possible shock hazard.
2. Use a clean, dry cellulose sponge or chamois cloth to wipe the TV screen and trim.

Caution:

Never use strong solvents such as thinner, benzene, or other chemicals on or near the cabinet. These chemicals can damage the finish of the cabinet.

Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the problem and some solutions.

Problem	Solution
TV will not turn on	• Make sure the power cord is plugged in, then press POWER. • The remote control batteries may be dead. Replace the batteries.
No picture, no sound	• Check the antenna/cable connections.
No sound, picture OK	• The sound may be muted. Press VOLUME. • The station may have broadcast difficulties. Try another channel.
Poor sound, picture OK	• The station may have broadcast difficulties. Try another channel.
Poor picture, sound OK	• Check the antenna connections. • The station may have broadcast difficulties. Try another channel. • Adjust the PICTURE menu.
Poor reception of broadcast channels	• The station may have broadcast difficulties. Try another channel. • Check the antenna connections. • If you are using a VCR, make sure the TV/VCR button is set correctly.
Cannot receive above channel 13	• Make sure TV/CABLE is set to CABLE mode.
Unable to select a certain channel	• The channel may be blocked by the V-Chip feature or CH LOCK feature, or erased with the add/erase feature.
Cannot access signal input sources (Video1, Video2, Video3 and ColorStream) and/or Channels 3 and 4	• Check the VIDEO LOCK feature.
Multiple images	• The station may have broadcast difficulties. Try another channel. • Use a highly directional outdoor antenna.
Poor color or no color	• The station may have broadcast difficulties. Try another channel. • Adjust the TINT and/or COLOR in the PICTURE menu. • If you change the direction of the TV while it is turned on, the picture could suffer from color shading. If so, turn off the TV and allow it to cool for several hours before turning it on again.
No stereo or SAP sound from a known MTS broadcast	• Make sure the MTS feature is set properly.
The V-Chip PIN code does not work	• Change or reset your PIN code (page 14 and 15).
The remote control does not operate	• Make sure the TV/VCR/CABLE mode is set properly. • Remove all obstruction between the remote control and the remote control sensor. • The remote control batteries may be dead. Replace the batteries.

Specifications

Picture Tube	Type 14 (357 mm diagonal)
Television system	NTSC standard
Channel coverage	VHF: 2 ~ 13 UHF: 14 ~ 69 Cable TV: 4A, A-5 ~ A-1, A-I, J ~ W, W+1 ~ W+48
Power source	120V AC, 60 Hz
Power consumption	80 W
Audio power	2.5W + 2.5W
Speaker type	1-5/8 x 2-13/16 inches (41 x 71 mm) x 2 pcs.
Video/Audio terminals	S-VIDEO INPUT Y-INPUT: 1V (p-p), 75 ohm, negative sync. C-INPUT: 0.286V (p-p) (burst signal), 75 ohm VIDEO/AUDIO INPUT VIDEO: 1V (p-p), 75 ohm, negative sync. AUDIO: 150 mV (rms) (30% modulation equivalent, 47k ohm) ColorStream™ (component video) INPUT Y : 1V (p-p), 75 ohm PR : 0.7V (p-p), 75 ohm PB : 0.7V (p-p), 75 ohm VIDEO/AUDIO OUTPUT VIDEO: 1V (p-p), 75 ohm, negative sync. AUDIO: 150 mV (rms) (30% modulation equivalent, 47k ohm)
Dimensions	Width: 17 inches (432 mm) Height: 13-9/16 inches (344.5 mm) Depth: 15-3/16 inches (386 mm)
Weight	24.3 lbs. (11 kg)
Supplied accessories	Remote control with two size "AAA" batteries

Design and specifications are subject to change without notice.

Limited United States Warranty

For 24” FST PURE® and All Smaller Television Models

Toshiba America Consumer Products, Inc. (“TACP”) and Toshiba Hawaii, Inc. (“THI”) make the following limited warranties to original consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.

PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

Limited Ninety (90) Day Warranty on Labor*

TACP/THI warrant this television and its parts against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TACP/THI WILL, AT TACP/THI’S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. YOU MUST DELIVER THE ENTIRE TELEVISION TO AN AUTHORIZED TACP/THI SERVICE STATION. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE SERVICE STATION.

Limited One (1) Year Warranty on Parts*

TACP/THI further warrant the parts in this television against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP/THI WILL, AT TACP/THI’S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR THE PART, PROVIDED THAT IF A DEFECTIVE PART IS REPAIRED OR REPLACED AFTER NINETY (90) DAYS FROM THE DATE OF ORIGINAL RETAIL PURCHASE, YOU MUST PAY ALL LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT. YOU MUST DELIVER THE ENTIRE TELEVISION TO AN AUTHORIZED TACP/THI SERVICE STATION. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE SERVICE STATION.

Limited Two (2) Year Warranty on Picture Tube*

TACP/THI further warrant the picture tube in this television against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. DURING THIS PERIOD, TACP/THI WILL, AT TACP/THI’S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU, EXCEPT THAT IF A DEFECTIVE PICTURE TUBE IS REPAIRED OR REPLACED AFTER NINETY (90) DAYS FROM THE DATE OF THE ORIGINAL RETAIL PURCHASE, YOU MUST PAY ALL LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT. YOU MUST DELIVER THE ENTIRE TELEVISION TO AN AUTHORIZED TACP/THI SERVICE STATION. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE SERVICE STATION.

Rental Units

The warranty for rental units begins with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

*Commercial Units

Televisions sold and used for commercial purposes have a limited ninety (90) day warranty for all parts, labor and picture tube.

Owner’s Manual and Demographic Card

You should read this owner’s manual thoroughly before operating this television. You should complete and mail the enclosed Demographic card within ten days after you, or the person who has given you this product as a gift, purchased this television. This is one way to enable TACP/THI to provide you with better customer service and improved product. Failure to return the Demographic card will not affect your rights under this warranty.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must provide your bill of sale or other proof of purchase.

(2) All warranty servicing of this television must be made by an Authorized TACP/THI Service Station.

(3) The warranties from TACP and THI are effective only if the television is purchased and operated in the U.S.A. or Puerto Rico.

(4) Labor service charges for set installation, set up, adjustment of customer controls and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.

(5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any television or parts which have been lost or discarded by you or to damage to television or parts caused by misuse, accident, Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by TACP/THI; or to units which have been modified or had the serial number removed, altered, defaced or rendered illegible.

How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the section “Troubleshooting”, you find that service is needed:

(1) To find the nearest TACP/THI Authorized Service Station:
For televisions purchased in the United States, except Hawaii, visit TACP’s web site at www.toshiba.com/tacp/cus_svc.html, or call toll free 1-800-631-3811.
For televisions purchased in Hawaii, contact Toshiba Hawaii, Inc., 327 Kamakee Street, Honolulu, HI 96814, (808) 591-9281.

(2) Present your bill of sale or other proof of purchase to the Authorized Service Station. You must deliver the entire television to an Authorized TACP/THI Service Station. You must pay for all transportation and insurance charges for the television to and from the Service Station.

For additional information, visit TACP’s web site: www.toshiba.com/tacp.

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS AND SIMILAR OBLIGATIONS OF TACP OR THI WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP OR THI BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP or THI arising under this warranty or under any law of the United States or of any state thereof is hereby limited to 90 days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

FST PURE® is a registered trademark of Toshiba America Consumer Products, Inc.

Limited Canada Warranty

For 24” FST PURE® and All Smaller Television Models

Toshiba of Canada Limited (“TCL”) makes the following limited warranties to original consumers in Canada. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.

PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

Limited Ninety (90) Day Warranty on Labor*

TCL warrants this television and its parts against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL’S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. YOU MUST DELIVER THE ENTIRE TELEVISION TO AN AUTHORIZED TCL SERVICE STATION. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE SERVICE STATION.

Limited One (1) Year Warranty on Parts*

TCL further warrants the parts in this television against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL’S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR THE PART, PROVIDED THAT IF A DEFECTIVE PART IS REPAIRED OR REPLACED AFTER NINETY (90) DAYS FROM THE DATE OF ORIGINAL RETAIL PURCHASE, YOU MUST PAY ALL LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT. YOU MUST DELIVER THE ENTIRE TELEVISION TO AN AUTHORIZED TCL SERVICE STATION. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE SERVICE STATION.

Limited Two (2) Year Warranty on Picture Tube*

TCL further warrants the picture tube in this television against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL’S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU, EXCEPT THAT IF A DEFECTIVE PICTURE TUBE IS REPAIRED OR REPLACED AFTER NINETY (90) DAYS FROM THE DATE OF THE ORIGINAL RETAIL PURCHASE, YOU PAY ALL LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT. YOU MUST DELIVER THE ENTIRE TELEVISION TO AN AUTHORIZED TCL SERVICE STATION. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE SERVICE STATION.

Rental Units

The warranty for rental units begins with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

*Commercial Units

Televisions sold and used for commercial purposes have a limited ninety (90) day warranty for all parts, labor and picture tube.

Owner’s Manual

You should read this owner’s manual thoroughly before operating this television.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must provide your bill of sale or other proof of purchase.

(2) All warranty servicing of this television must be made by an Authorized TCL Service Station.

(3) The warranties from TCL are effective only if the television is purchased in Canada from an authorized TCL dealer and operated in Canada.

(4) Labor service charges for set installation, set up, adjustment of customer controls and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.

(5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any television or parts which have been lost or discarded by you or to damage to television or parts caused by misuse, accident, Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by TCL; or to units which have been modified or had the serial number removed, altered, defaced or rendered illegible.

How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the section "Troubleshooting", you find that service is needed:

(1) To find the nearest TCL Authorized Service Station visit TCL's web site at www.toshiba.ca

(2) Present your bill of sale or other proof of purchase to the Authorized Service Station. You must deliver the entire television to an Authorized TCL Service Station. You must pay for all transportation and insurance charges for the television to and from the Service Station.

For additional information, visit TCL's web site: www.toshiba.ca

ALL WARRANTIES IMPLIED BY THE LAW OF ANY PROVINCE OF CANADA, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY PROVINCE OF CANADA AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS AND SIMILAR OBLIGATIONS OF TCL WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TCL BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TCL arising under this warranty or under any law of Canada or of any province thereof, is hereby limited to 90 days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any province of Canada.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM PROVINCE TO PROVINCE IN CANADA. SOME PROVINCES OF CANADA DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

FST PURE® is a registered trademark of Toshiba America Consumer Products, Inc.

NOTES

TOSHIBA AMERICA CONSUMER PRODUCTS, INC.
Head Office
82 Totowa Road, Wayne, NJ 07470
Factory Service Center
1420B Toshiba Drive, Lebanon, TN 37087

TOSHIBA HAWAII, INC
Head Office
327 Kamakee Street, Honolulu, HI 96814

TOSHIBA CANADA LIMITED
191 McNabb Street
Markham, Ontario L3R 8H2

PRINTED IN THAILAND

TOSHIBA

3L00301B U
02/04